

K5 SHUTRELEASE RU

Ready To Use Solvent Based Chemical Mould-release Agent



Description :

K-5 SHUTRELEASE RU is a specially formulated blend of mineral oils and chemicals having release properties, which are superior to those of conventional mould oil. The chemical react with the alkali in the concrete to form a thin water repellent skin on the surface of the mould, thereby enabling easy stripping from concrete and protects steel and wooden formwork. K-5 SHUTRELEASE RU is supplied as a pale straw coloured, ready to use liquid. It reacts with the alkalis and water at the interface of the concrete and formwork to produce a thin film of lime soap, which breaks the bond enabling the formwork to be readily stripped. Excellent "off form" finish- produces a clear reproduction of formwork texture and sharp concrete feature.

Uses :

- Use on all types of formwork to enable clean stripping of forms and provide excellent architectural finishes
- It is formulated for application to plywood, timber, steel and plastic faced form work and moulds, prior to casting concrete, to ensure a clean release.
- Use in all concrete construction whether "in situ", precast or prestressed
- Application to wheelbarrows, trowels, buckets and other construction tools to facilitate cleaning and provide protection against rusting
- Application to metal window and door frames to prevent adhesion of cement and mortar splashes during construction



Properties :

SPECIFIC GRAVITY	: 0.83 ± 0.2 at 30°C
SERVICE TEMPERATURE	: Suitable for use with steam cured concrete.
FORMWORK SURFACES	: Equally effective on wood or metal moulds and shutters.
NON-STAINING	: Does not stain concrete and can be used safely with white cement to ensure good finish.

Advantages :

- Ensures good fair-faced concrete
- Can be used on all type of formwork
- Non-staining
- Excellent coverage.



- Minimum cleaning of shutters before re-use
- Saves labors.
- Can be used with steam curing.
- Reduce the incidence of air pocket and tendency of surface spalling of corners.
- No discolouration or blotchiness, provides stain-free, "off-form" architectural concrete finishes.
- Suitable for use with normal, off-white and coloured concrete.
- Excellent "off-form" finish-produces a clear reproduction of formwork texture and sharp concrete features.
- Protects aluminum windows and door frames from plaster and mortar splashes.
- Easy to use, requires no mixing on site.
- Due to the excellent release properties, little or no deposit of cement paste remains on the shutter. Minimum cleaning time & a further coat of K-5
- SHUTRELEASE RU renders shuttering ready for re-use.

Application Instructions :

PREPARATION OF NEW MOULDS: No preparation is necessary but if extensive re-use of Timber moulds is envisaged, it is advisable to protect all new surfaces with K-5 SHUTRELEASE RU. For used moulds, all traces cement must be removed together with any surface deposits of previous oils.

COATING: K-5 SHUTRELEASE RU can be applied by brush, sponge or conventional mould oil-sprayer. If an oil-sprayer is used, care should be taken to choose correct size of sprayer. Apply one, thin and even coat of K-5 SHUTRELEASE RU over the entire surface. Only the thinnest coating necessary to achieve effective coverage should be applied. Excess application is un economical and may lead to surface dusting. Wire or brush off any excess particles on the surface and apply one coat of K-5 SHUTRELEASE RU as before. To remove K-5 SHUTRELEASE RU completely, for recoating mould or shutter surface, use strong industrial detergent together with stiff brushing & then thoroughly rinse with clean water.

Concrete Surface Quality :

In addition to preventing adhesion of the cement paste to the mould or shutter face, K-5 SHUTRELEASE RU allows air, which would otherwise be trapped, to escape from the face when the concrete is being poured and vibrated. Pockets of air, trapped on the shutter faces of concrete are a major cause of imperfections, necessitating remedial work. K-5 SHUTRELEASE RU avoids time and cost for this. The chemical reaction between K-5 SHUTRELEASE RU and cement in concrete mix produces a strongly hydrophobic surface. This ripples surplus water at the interface with the mould and preserves uniformity of surface texture and colour.

Packing & Coverage :

1, 5, 10, 50, 100 Ltr drum.

Coverage between 40 to 60 m²/litre is possible depending upon the porosity and texture of mould surface.

Shelf Life :

36 months storage life when stored in original unopened container at between 5 °C to 45 °C in a dry and shaded place.

Health & Safety :

K5 SHUTRELEASE RU is non-hazardous. It should not be swallowed or allowed to come into contact with skin or eyes. Suitable protective goggles and gloves should be worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If swallowed, seek medical attention immediately, do not induce vomiting.



Note :

All information is given in good faith on the results gained from experience and tests. However, all recommendations or suggestions are made without guarantee since we don't have any control on site conditions and its uses.